

**ABSTRACT**

The invention concerns a sensor (1), in particular a biosensor, comprising an electrically or electronically insulating support (2), including at least one active surface (20), a plurality of electrically or electronically conductive electrodes (31,32), arranged on the active surface (2a) of the support in a predetermined operative arrangement, exposed, that is said electrodes can be jointly placed in contact with a common external medium, for example a liquid medium; a plurality of electric terminals (4) respectively corresponding to said electrodes (4), arranged on the active surface (2a, 2b) of the support, exposed, that is said terminals can be electrically or electronically connected outside, independently of one another; a plurality of electrically or electronically conductive strips (5), extending along one (2a) and/or the other (2d) of the support surfaces, connecting the plurality of electrodes (31,32) respectively to the plurality of terminals (4); an electrically or electronically insulating material layer (6), coating one (2a) and/or the other (2b) of the support surfaces, covering at least part of said strip conductors and exposing both the electrodes (31,32) and the terminals (5). The invention is characterized in that, in combination, the plurality of electrodes (4) is arranged in an end zone (1a) opposite another end zone wherein electric terminals (5) are assembled together and the support (2) comprises at least one flexible zone (1c), located between the two end zones.